

Hand in "Get to know you"

Pick up traffic and units worksheets

Notes:

What is Physics?

gravity, everything, kinematics(describing motion), dynamics(forces), energy

Definition:

The study of matter and interactions (forces cause changes in energy)

Physics is experimental and tested through careful observation.

Observations are improved by measurement - compare to a set standard.

Standardized set of units:

Metric System - SI system - *Système Internationale d'Unité*.

| Quantity | Base unit | derived unit |
|------------------------------|----------------|---------------------------------|
| length, x displacement, s | metre, m | centimetre, cm or light year |
| mass, m | kilogram kg | gram, g tonne, t |

| | | |
|---------------------|---------------------|------------------------------------|
| | , kg | |
| Electric current, I | Ampere, A | mA, miliampere |
| electric charge, q | A x s | coulomb, C or elementary charge, e |
| Temperature, T | Kelvin, K | Celsius, degrees C |
| Intensity, I | candela, cd | watts per metre squared W/m^2 |
| time, t | seconds, s | hours, minutes |
| Force, F | kg m/s ² | Newton, N |
| number of stuff | mole, mol | |
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